Notice of Allowability	Application No.	Applicant(s)
	10/622,544	HIRAYAMA, NOBUYUKI
	Examiner	Art Unit
	Blaise L Mouttet	2853
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to the communication of December 15, 2003.		
2. The allowed claim(s) is/are <u>1-13.</u>		
3. The drawings filed on are accepted by the Examiner.		
4.		
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 11/7/03,12/15/03 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Summary Paper No./Mail Dat 18), 7. ☑ Examiner's Amendr	te

Application/Control Number: 10/622,544

Art Unit: 2853

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Peter Thurlow (Reg. No. 47,138) on November 23, 2004.

In the claims:

In claim 6, line 4, change "transistors" to --transistor--.

In claim 7, last two lines, change "generating heat energy to be applied to ink" to --generating the heat energy to be applied to the ink--.

In claim 13, last two lines, change "generating heat energy to be applied to ink" to --generating the heat energy to be applied to the ink--.

The following changes to the drawings have been approved by the examiner and agreed upon by applicant:

- Fig. 3: Delete reference character 109.
- Fig. 6: Delete reference characters 207a1-207mx.
- Figs 12-15: Label each figure -- PRIOR ART--.
- Fig. 14: Delete reference character 1102 and bracket that refers to the whole figure.

Application/Control Number: 10/622,544 Page 3

Art Unit: 2853

Figure 15: Delete reference character 1107.

In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

Additional Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kanda et al. US 6,780,701 teaches forming high and low breakdown voltage transistors on a common substrate and notes that logic sections are commonly formed with lower breakdown voltages than drive sections for devices such as printheads (column 1, lines 15-26).

Scardovi et al. WO 01/03932 teaches a plurality of individual MOS switches (22) for printing elements (21) (characterized as the drive portions), a common MOS switch (25) (characterized as a logic portion) arranged commonly to printing elements belonging to each of a plurality of groups of the printing elements, and driving means (providing the logic X and control A signals). Scardovi et al. fails to specify any difference between the MOS switches forming the common switches and those forming the individual switches.

REASONS FOR ALLOWANCE

The following is a statement of reasons for the indication of allowable subject matter:

Forming MOS transistors for printheads with different breakdown voltages is evidenced in the prior art by Kanda et al. and a similar circuit configuration to that claimed is evidenced in the prior art by Scardovi et al. However a combination of the teachings of the two references would result in the opposite scenario to that claimed (i.e. the common MOS switch, characterized as performing a logic function by Scardovi et al., having the lower breakdown voltage.) which is seen as persuasive evidence of the non-obviousness of the claimed invention. None of the prior art of record discloses or renders obvious the combinations as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Blaise Mouttet who may be reached at telephone number (571) 272-2150. The examiner can normally be reached on Monday-Friday from 8:30 a.m. to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier, Art Unit 2853, can be reached at (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Application/Control Number: 10/622,544

Art Unit: 2853

Page 5

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Blaise Mouttet December 3, 2004

Bl. must 12/03/2004

LAMSON NGUYEN

PRIMARY EXAMINER